

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Environmental Management
DIVISION OF FOREST ENVIRONMENT
1037 Hartford Pike
North Scituate, R.I. 02857
(401) 647-3367

FOREST PEST CONDITIONS REPORT - 1992

Summary for Rhode Island

- Birch leafminer: moderate to heavy in severity, along highways, roadsides, and on private properties.
- Eastern Tent Caterpillar: light infestations along roadsides in Providence County.
- Orange-striped Oakworm: light infestations in wooded areas of Burrillville.
- Red Pine Scale: moderate to heavy infestations in Washington County (75 - 100 acres affected), especially in Burlingame State Park, which is located in Washington County (about 30 acres affected.)
- Diplodia: light in severity on only a few Scotch Pine (Christmas tree plantings) trees in Burrillville and Foster.
- Ash Yellow: light in Smithfield, but very heavy at the linerock quarry area in Lincoln.
- Red Pine Adelgid: light infestation in Washington County.
- Henlock Scale: light infestations within state properties in Burrillville.
- Turpentine Beetle: light infestations in Newport and Washington Counties, but light to heavy infestations on Block Island (about 50 acres affected on Block Island.)
- Henlock Woolly Adelgid: new but light infestations in Providence County (Riverside, Scituate) and Washington County (North Kingstown, Exeter, and Saunterstown.)
- Pear Thrips: heavy (compared to the other sites) infestation in Scituate, and light infestations in Foster, Exeter, and South Kingstown. About 16 acres were affected in Scituate, 5 acres affected in Foster, and less than 1 acre affected in Exeter and in South Kingstown.
- Saddled Prominent: moderate to heavy infestations in the Arcadia Management Area, located in Washington County.

There was no significant damage due to dieback, drought, frost/cold injury, or ozone damage.

Other diseases/insects appearing in Rhode Island in 1992:

Cedar-Apple Rust (5 cases)

Anthracnose

Pale Tussock Moth

Phomopsis Canker

Larch Casebearer

Herlock Looper

Cryphonectria Canker

Prepared by Lawrence R. Namerow

Entomologist, Division of Forest Environment

North Scituate, Rhode Island

December, 1992

FOREST HEALTH WORKSHEET

AFFECTED FOREST TYPES * /OTHER **	ACRES/AREA AFFECTED	SEVERITY/PATTERN (Define classes)
<u>Gray Birch</u>	<u>Statewide,</u>	<u>moderate to heavy,</u>
<u></u>	<u>along roadsides,</u>	<u>depending on location</u>
<u></u>	<u>highways, and</u>	<u></u>
<u></u>	<u>private properties.</u>	<u></u>

* Forest Type Group - White-Red-Jack Pine, Spruce-Fir, Hard Pine, Oak-Pine, Oak Hickory, Oak-Gum-Cypress, Elm-Ash-Cottonwood, Northern Hardwood, Aspen-Birch.

** Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE

DAMAGE CAUSING AGENT Birch leafminer

SCIENTIFIC NAME Fenusa pusilla

SPECIFIC TREE SPECIES AFFECTED Gray Birch, statewide

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)
Age of trees varied, depending on location

SURVEY METHOD Observation of roadsides, highways, and calls from private property owners.

TREATMENT (if any) To private property owners: Diazinon, twice a year. Once at leaf emergence, and again when leaves are full grown.

TREND (Past and future) Continue to be a problem in the state, at above mentioned levels.

LOCATION	MAP ENCLOSED <u>no</u>	TAPE ENCLOSED <u></u>
STATEWIDE <u>yes</u> OR:		
COUNTY <u>all counties</u>	TOWNSHIP <u></u>	
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<u></u>	<u></u>	
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(If needed, continue on reverse side)

COMMENTS

FOREST HEALTH REPORT - RHODE ISLAND

-1992-

GYPSY MOTH (*Lymantria dispar*)

A statewide egg mass survey conducted in the Autumn of 1991 found five sites in Northern Rhode Island with egg masses present.

These sites were visited in late Spring, but no visible defoliation was seen that could be attributed to Gypsy moth. No larvae were observed at any of these sites.

We received a few telephone calls from persons who thought they had Gypsy moth present on their properties. All calls except for one each in Cranston and Providence, proved not to be Gypsy moth. Larvae were found at the two sites above, but again no significant defoliation was found in the vicinity.

The statewide egg mass survey for Gypsy moth in the Autumn of 1992 found no egg masses on any site.

FOREST HEALTH WORKSHEET

AFFECTED FOREST TYPES*/OTHER**	ACRES/AREA AFFECTED	SEVERITY/PATTERN (Define classes)
<u>Eastern Hemlock</u>	<u>Within state property in Burrillville</u>	<u>light</u>
_____	_____	_____
_____	_____	_____

* Forest Type Group - White-Red-Jack Pine, Spruce-Fir, Hard Pine, Oak-Pine, Oak Hickory, Oak-Gum-Cypress, Elm-Ash-Cottonwood, Northern Hardwood, Aspen-Birch.

** Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE

DAMAGE CAUSING AGENT Hemlock Scale

SCIENTIFIC NAME Abgrallaspis ithacae

SPECIFIC TREE SPECIES AFFECTED Understory hemlocks (Tsuga Canadensis),
within wooded areas of state property in Burrillville.

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)

Understory hemlocks, 10 - 40 years old.

SURVEY METHOD observation of hemlocks

TREATMENT (if any)

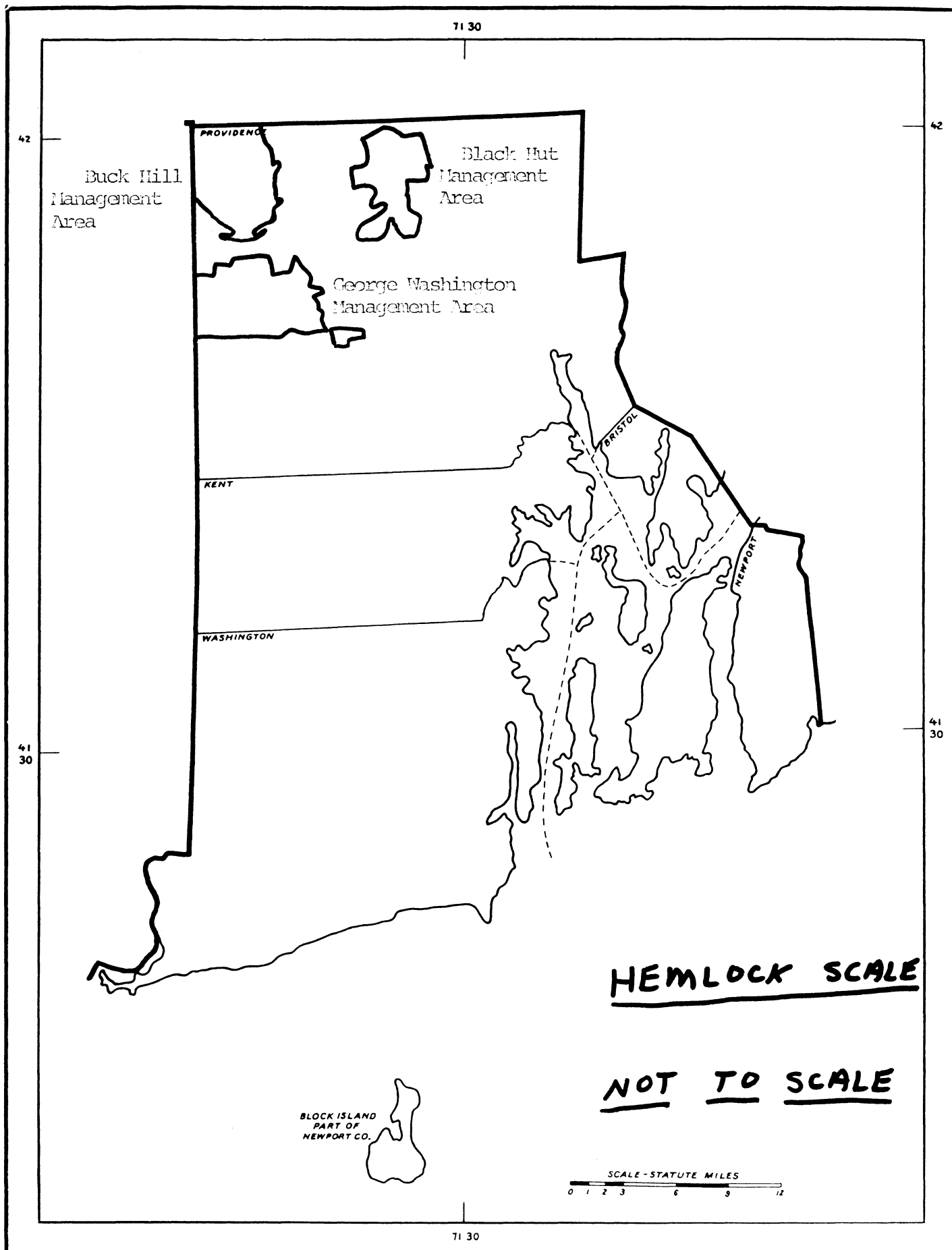
TREND (Past and future)

LOCATION	MAP ENCLOSED <u>yes</u>	TAPE ENCLOSED _____
STATEWIDE _____ OR:		
COUNTY <u>Providence</u>	TOWNSHIP _____	
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_____	_____	
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(If needed, continue on reverse side)

COMMENTS

RHODE ISLAND



FOREST HEALTH WORKSHEET

AFFECTED FOREST TYPES * /OTHER **	ACRES/AREA AFFECTED	SEVERITY/PATTERN (Define classes)
Hemlock	Providence County -	light
	Riverside, Scituate	
	Washington County -	light
	North Kingstown,	
	Saunderstown, Exeter	

(All these sites were reported by phone) to

* Forest Type Group - White-Red-Jack Pine, Spruce-Fir, Hard Pine, Oak-Pine, Oak Hickory, Oak-Gum-Cypress, Elm-Ash-Cottonwood, Northern Hardwood, Aspen-Birch.

** Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE

DAMAGE CAUSING AGENT Hemlock Woolly Adelgid

SCIENTIFIC NAME Adelges tsugae

SPECIFIC TREE SPECIES AFFECTED Eastern Hemlock

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)

20 years old (approx.) and upwards

SURVEY METHOD received phone calls on above locations. All locations were on residential property, except in Scituate (this was on the property of the Providence Water Supply Board.)

TREATMENT (if any)

TREND (Past and future) This insect has spread to new locations and these infestations seem to be near the coastline. Trend will probably be that this insect will continue to spread near coastline areas and possibly more inland if conditions are proper.

LOCATION MAP ENCLOSED yes TAPE ENCLOSED _____

STATEWIDE _____ OR:

COUNTY Providence

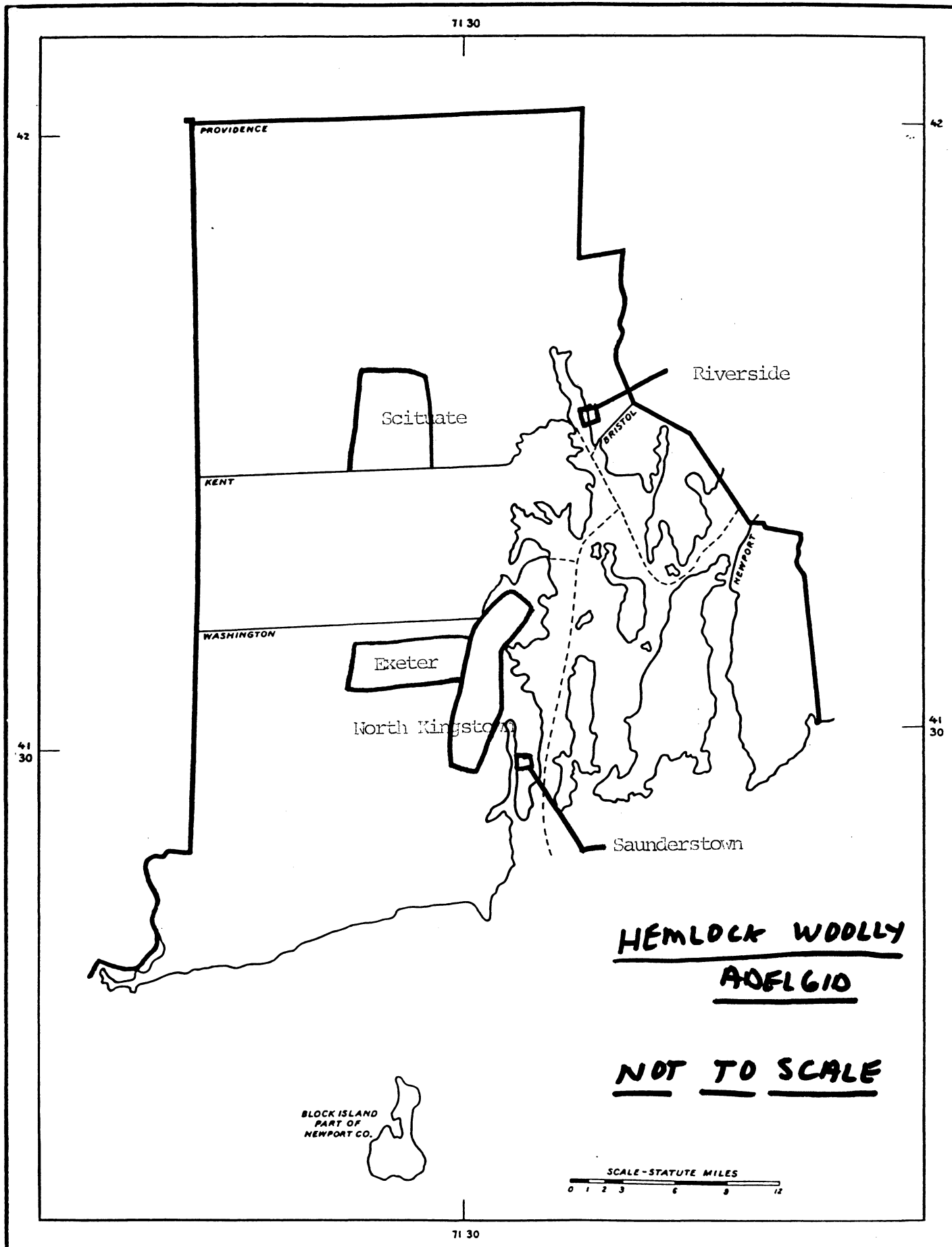
TOWNSHIP _____

Washington

(If needed, continue on reverse side)

COMMENTS

RHODE ISLAND



✓ R1

FOREST HEALTH WORKSHEET

AFFECTED FOREST TYPES * /OTHER **	ACRES/AREA AFFECTED	SEVERITY/PATTERN (Define classes)
Black Oak	Burrillville, in	light
	wooded areas	

* Forest Type Group - White-Red-Jack Pine, Spruce-Fir, Hard Pine, Oak-Pine, Oak Hickory, Oak-Gum-Cypress, Elm-Ash-Cottonwood, Northern Hardwood, Aspen-Birch.

** Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE

DAMAGE CAUSING AGENT Orange-striped Oakworm

SCIENTIFIC NAME Anisota senatoria

SPECIFIC TREE SPECIES AFFECTED Black Oak

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)

40 - 60 years old

SURVEY METHOD Observational in wooded areas.

TREATMENT (if any)

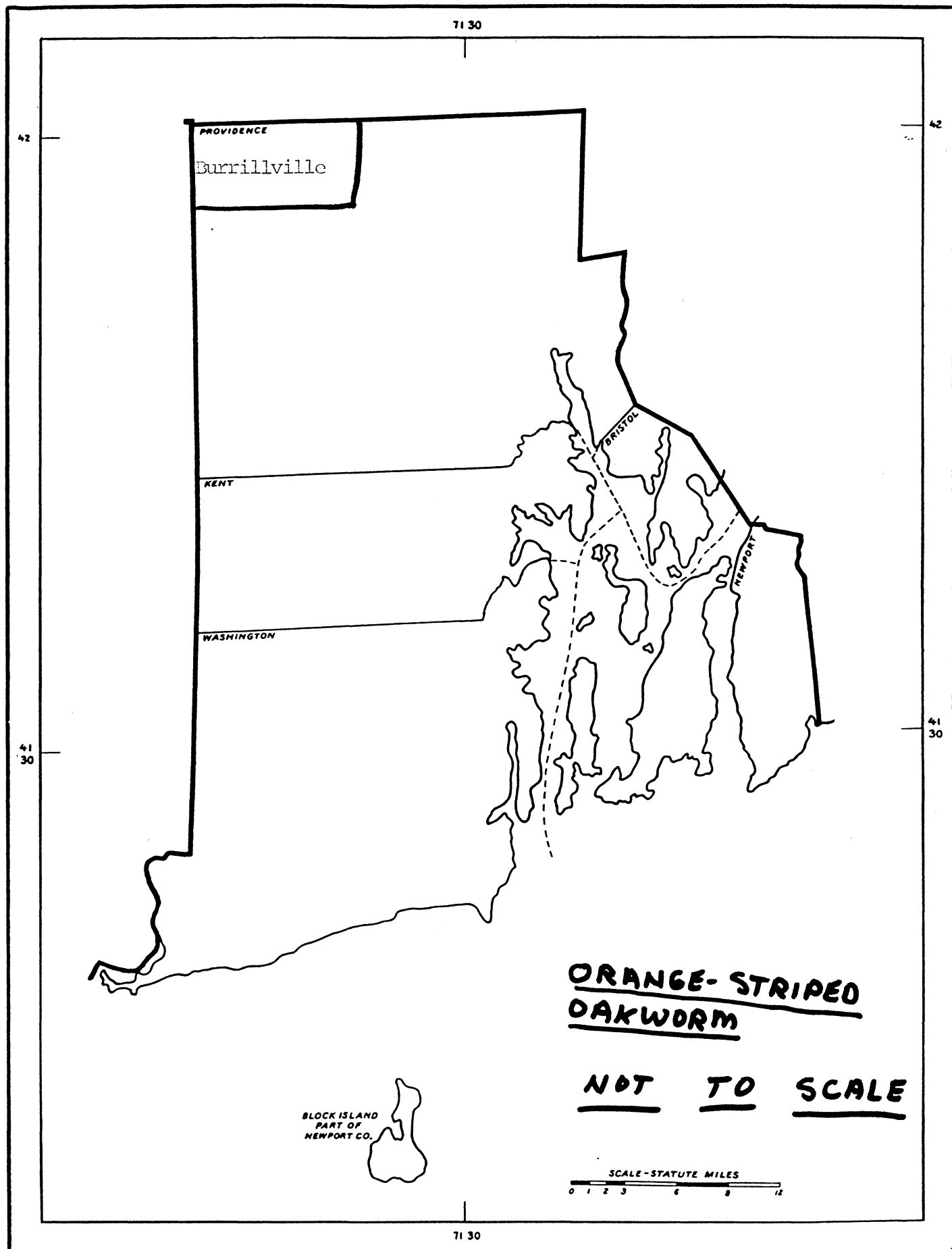
TREND (Past and future)

LOCATION	MAP ENCLOSED <u>yes</u>	TAPE ENCLOSED _____
STATEWIDE _____ OR:		
COUNTY <u>Providence</u>	TOWNSHIP _____	
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(If needed, continue on reverse side)

COMMENTS

RHODE ISLAND



✓ R1

FOREST HEALTH WORKSHEET

AFFECTED FOREST TYPES [*] /OTHER ^{**}	ACRES/AREA AFFECTED	SEVERITY/PATTERN (Define classes)
Red Pine	less than 20 acres	light- spotty areas
_____	_____	_____
_____	_____	_____
_____	_____	_____

* Forest Type Group - White-Red-Jack Pine, Spruce-Fir, Hard Pine, Oak-Pine, Oak Hickory, Oak-Gum-Cypress, Elm-Ash-Cottonwood, Northern Hardwood, Aspen-Birch.

** Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE

DAMAGE CAUSING AGENT Red Pine Adelgid

SCIENTIFIC NAME

SPECIFIC TREE SPECIES AFFECTED Red Pine

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)
40 years old (approx.)

SURVEY METHOD Observational calls

TREATMENT (if any)

TREND (Past and future) Not of great concern, at the present time.

LOCATION	MAP ENCLOSED <u>no</u>	TAPE ENCLOSED _____
STATEWIDE _____ OR:		
COUNTY <u>Washington</u>	TOWNSHIP _____	
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(If needed, continue on reverse side)

COMMENTS

FOREST HEALTH WORKSHEET

AFFECTED FOREST TYPES*/OTHER**	ACRES/AREA AFFECTED	SEVERITY/PATTERN (Define classes)
Sugar Maple	Scituate - 16 acres	heavy
	Foster - 5 acres	light
	(above, Providence County)	
Washington County -	Exeter - less than 1 acre	light
	South Kingstown - less than 1 acre	light
* Forest Type Group - White-Red-Jack Pine, Spruce-Fir, Hard Pine, Oak-Pine, Oak Hickory, Oak-Gum-Cypress, Elm-Ash-Cottonwood, Northern Hardwood, Aspen-Birch.		

** Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE

DAMAGE CAUSING AGENT Pear Thrips

SCIENTIFIC NAME Taeniothrips inconsequens

SPECIFIC TREE SPECIES AFFECTED Sugar Maple

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)
20 years old (approx.) and beyond

SURVEY METHOD Use of sticky traps to capture the emerging pear thrips.

TREATMENT (if any)

TREND (Past and future) Probably not too much of a problem in Rhode Island at
the present time, or in the future.

LOCATION	MAP ENCLOSED <u>yes</u>	TAPE ENCLOSED _____
STATEWIDE _____ OR:		
COUNTY <u>Providence</u>	TOWNSHIP _____	
<u>Washington</u>	_____	
_____	_____	
_____	_____	
_____	_____	

(If needed, continue on reverse side)

COMMENTS

R1

RHODE ISLAND



FOREST HEALTH WORKSHEET

AFFECTED FOREST TYPES*/OTHER**	ACRES/AREA AFFECTED	SEVERITY/PATTERN (Define classes)
Red Pine	75 - 100 acres throughout Washington County, including 30 acres in Burlingame State Park (Washington County)	moderate to heavy, depending on location. In spotty locations.

* Forest Type Group - White-Red-Jack Pine, Spruce-Fir, Hard Pine, Oak-Pine, Oak Hickory, Oak-Gum-Cypress, Elm-Ash-Cottonwood, Northern Hardwood, Aspen-Birch.

** Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE

DAMAGE CAUSING AGENT Red Pine Scale

SCIENTIFIC NAME Matsucoccus resinosae

SPECIFIC TREE SPECIES AFFECTED Red Pine

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)

40 years old (approx.)

SURVEY METHOD Observation calls

TREATMENT (if any)

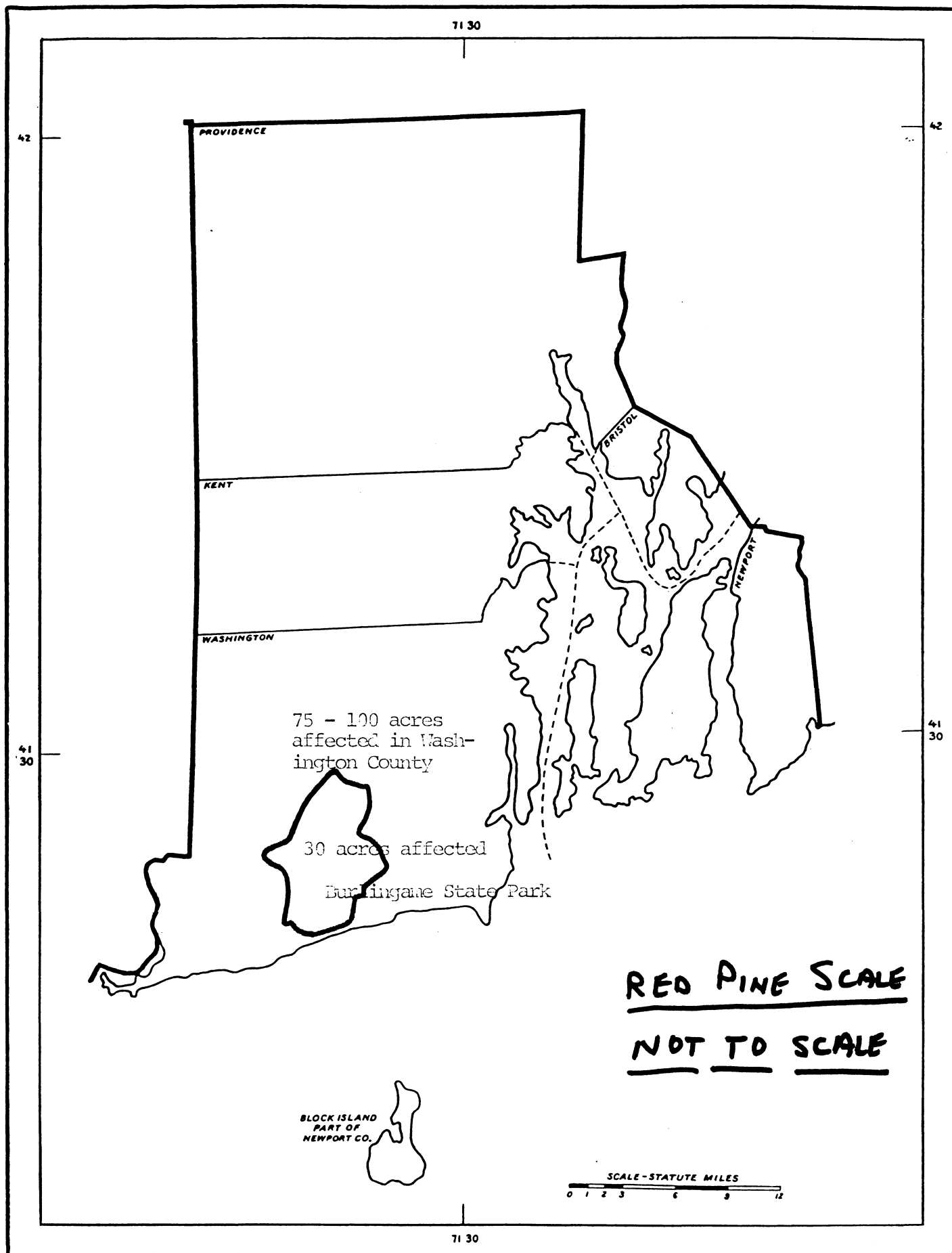
TREND (Past and future) Red Pine Scale has been present for approximately the last 4 to 5 years. Is expanding and will probably be a continual problem in the future.

LOCATION	MAP ENCLOSED <u>yes</u>	TAPE ENCLOSED _____
STATEWIDE _____ OR:		
COUNTY <u>Washington</u>	TOWNSHIP _____	
_____	_____	
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(If needed, continue on reverse side)

COMMENTS

RHODE ISLAND



FOREST HEALTH WORKSHEET

AFFECTED FOREST TYPES [*] /OTHER ^{**}	ACRES/AREA AFFECTED	SEVERITY/PATTERN (Define classes)
Oak - Maple	Washington County - Arcadia Management Area.	moderate to heavy, depending on site.

* Forest Type Group - White-Red-Jack Pine, Spruce-Fir, Hard Pine, Oak-Pine, Oak Hickory, Oak-Gum-Cypress, Elm-Ash-Cottonwood, Northern Hardwood, Aspen-Birch.

** Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE

DAMAGE CAUSING AGENT Saddled Prominent

SCIENTIFIC NAME Heterocampa guttivitta

SPECIFIC TREE SPECIES AFFECTED White Oak and Maple

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)

25 years old (approx.) and upward

SURVEY METHOD Used George Saufley's method (Forest Service - Durham, NH): using four boxes with different size mesh wire to collect the pupae. Dug a 2 foot area, approx. one inch deep, and put contents

TREATMENT (if any) into boxes and sifted the material down to the smaller mesh screen. Counted all pupae found (those intact and those not). Many sites were used and many samples were taken.

TREND (Past and future) This was the first year this insect surfaced in the state. Hard to say how future trends will be.

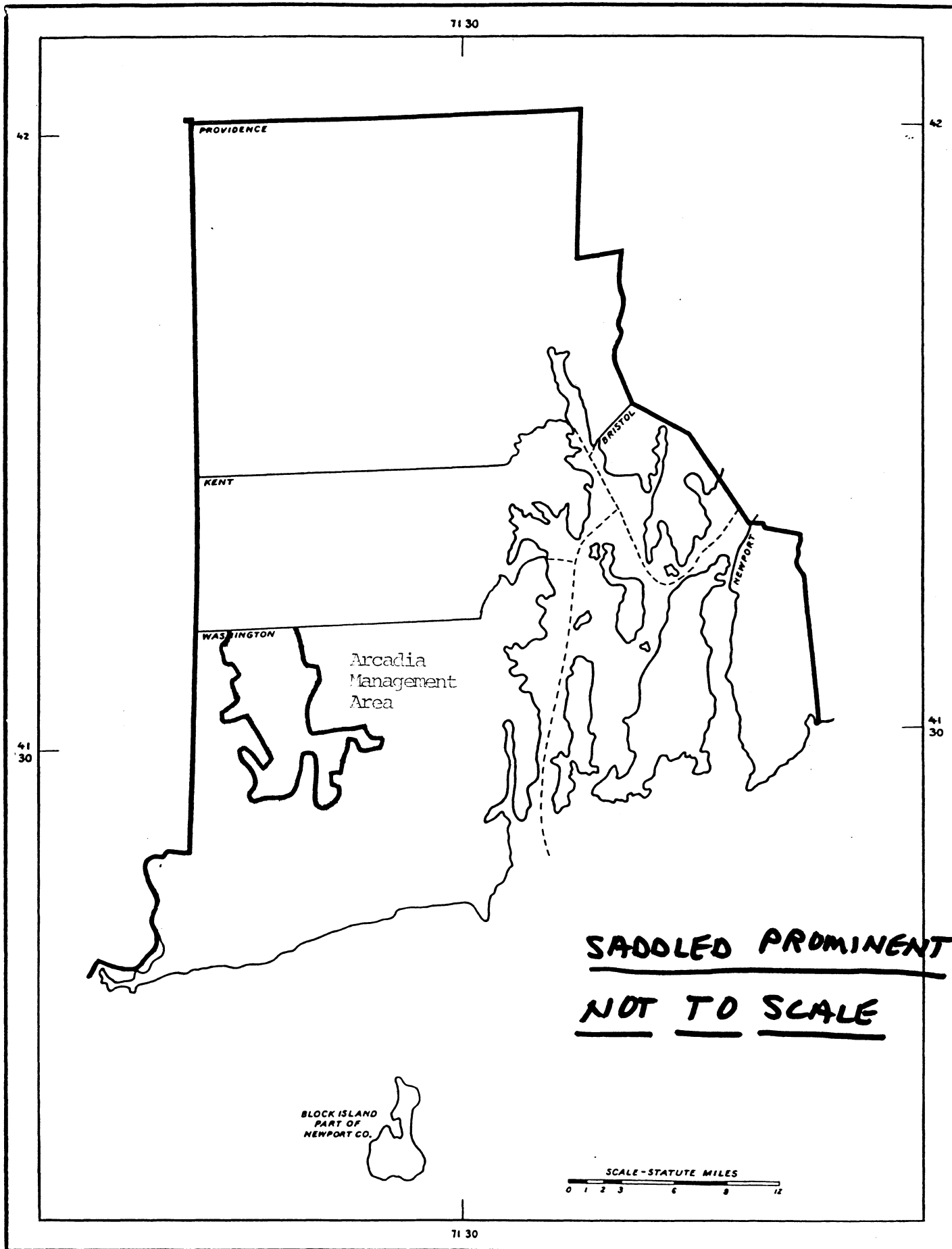
LOCATION	MAP ENCLOSED <u>yes</u>	TAPE ENCLOSED _____
STATEWIDE _____ OR:		
COUNTY <u>Washington</u>	TOWNSHIP _____	
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_____	_____	
_____	_____	

(If needed, continue on reverse side)

COMMENTS

R1

RHODE ISLAND



✓ R1

SEVERITY/PATTERN
(Define classes)

Newport County -
light
Washington County -
light
Block Island - light
to heavy

** Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE CAUSING AGENT Turpentine Beetle

SCIENTIFIC NAME *Dendrotonus terrebens* (??)

SPECIFIC TREE SPECIES AFFECTED Pitch Pine, Red Pine and Japanese Black Pine (mostly)

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)

40 years old (approx.) in Newport and Washington Counties.
25 years old (approx.) on Block Island.

SURVEY METHOD	Sampling trunks and observational calls
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TREATMENT (if any)

TREND (Past and future) This insect has been present for approximately the last 5 years and is expected to be an on going problem.

LOCATION _____ MAP ENCLOSED yes TAPE ENCLOSED _____

STATEWIDE _____ OR: _____

COUNTY Newport County TOWNSHIP _____

Washington County - Westerly, Charlestown

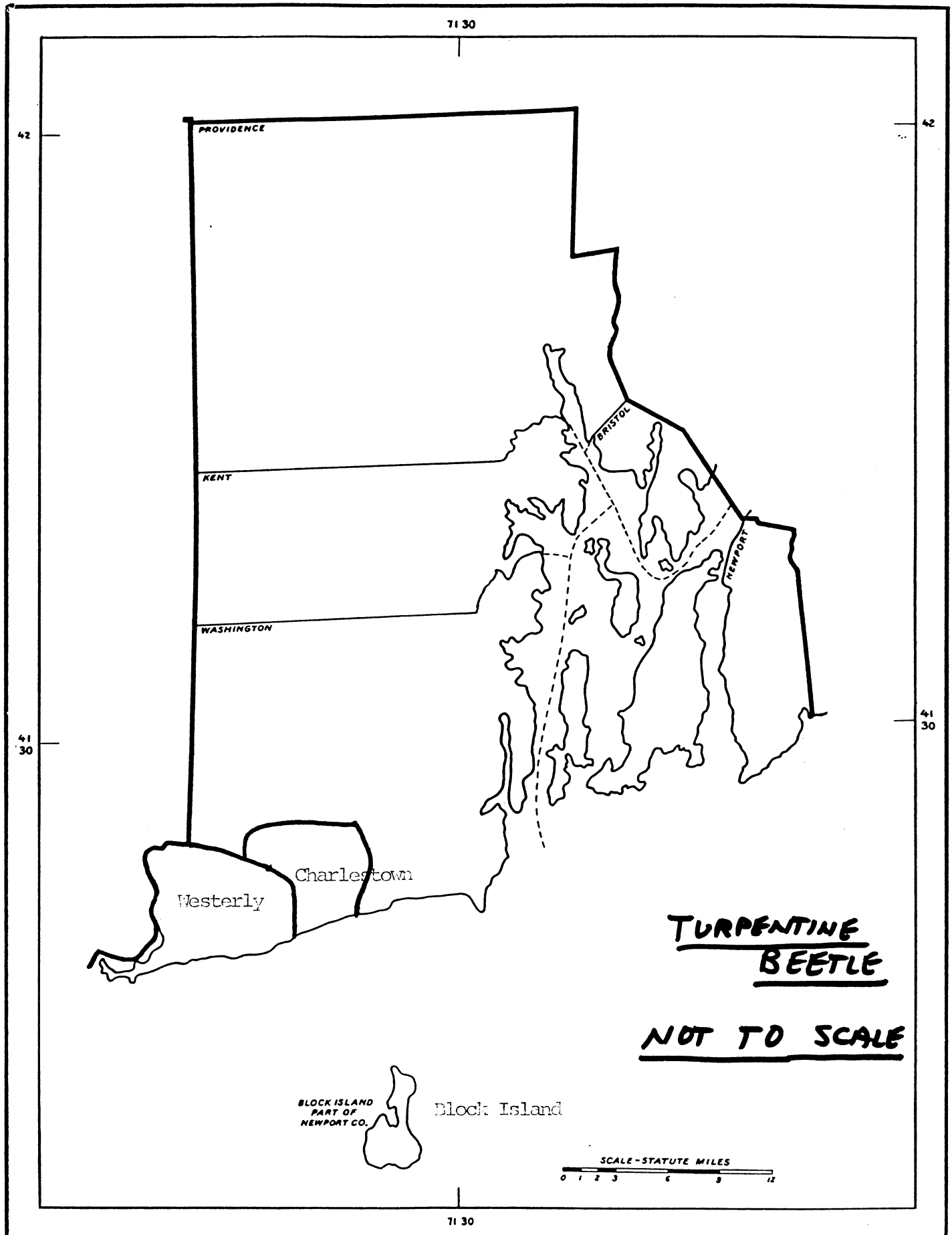
Block Island

(If needed, continue on reverse side)

COMMENTS In Newport County, trees are stressed and are near the ocean (near salt water)

R1

RHODE ISLAND



FOREST HEALTH WORKSHEET

AFFECTED FOREST TYPES * /OTHER **	ACRES/AREA AFFECTED	SEVERITY/PATTERN (Define classes)
Ash	Lincoln and Smithfield, along roadsides.	Very heavy in Lincoln at the linerock quarry. Light in Smithfield.

* Forest Type Group - White-Red-Jack Pine, Spruce-Fir, Hard Pine, Oak-Pine, Oak Hickory, Oak-Gum-Cypress, Elm-Ash-Cottonwood, Northern Hardwood, Aspen-Birch.

** Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE

DAMAGE CAUSING AGENT Ash Yellow (determined by Forest Service)

SCIENTIFIC NAME

SPECIFIC TREE SPECIES AFFECTED Ash

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)
20 years old and beyond (approx.)

SURVEY METHOD Observational calls

TREATMENT (if any)

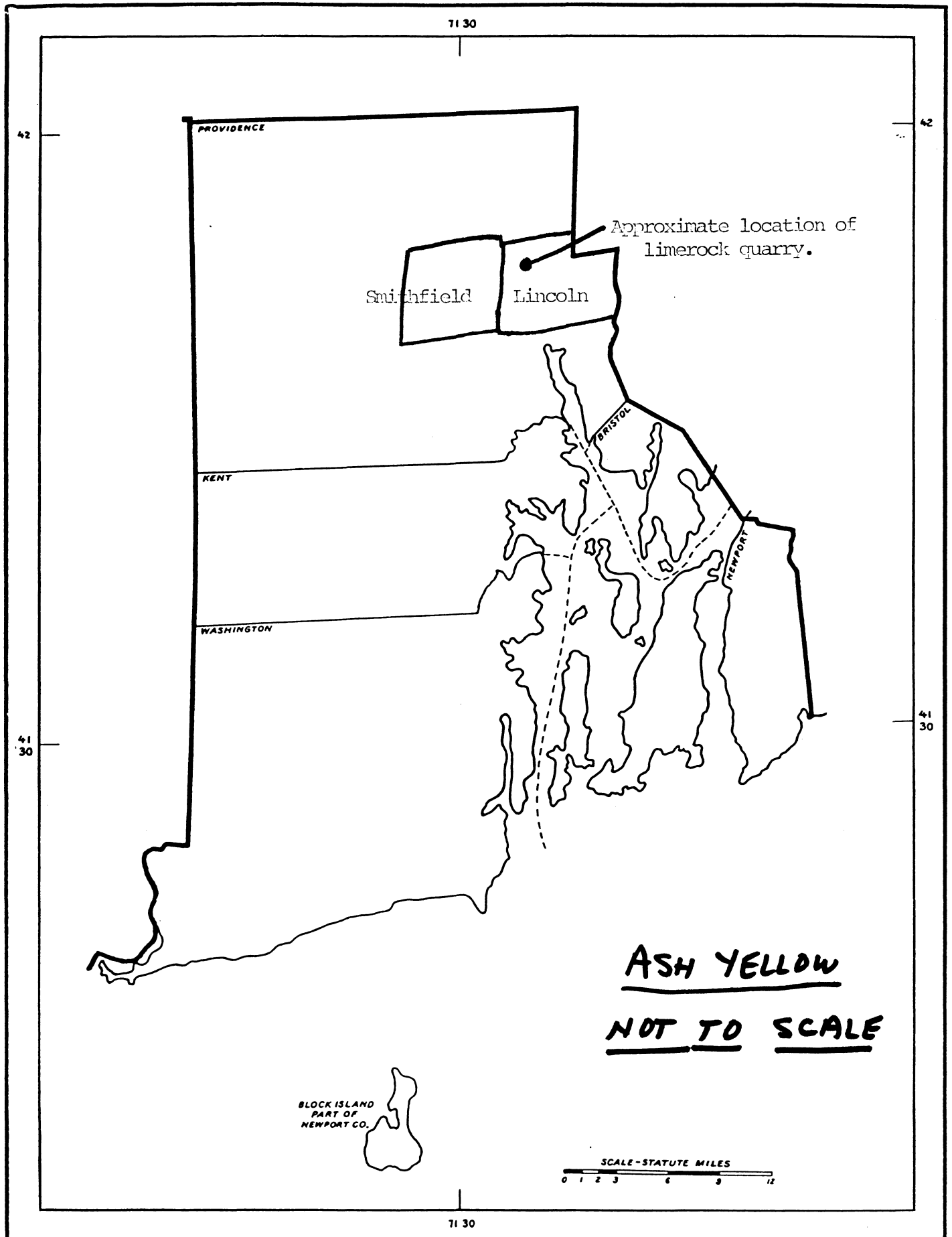
TREND (Past and future)

LOCATION	MAP ENCLOSED <u>YES</u>	TAPE ENCLOSED _____
STATEWIDE _____ OR:		
COUNTY <u>Providence</u>	TOWNSHIP _____	
_____	_____	
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_____	_____	

(If needed, continue on reverse side)

COMMENTS

RHODE ISLAND



✓ R1

FOREST HEALTH WORKSHEET

AFFECTED FOREST TYPES [*] /OTHER ^{**}	ACRES/AREA AFFECTED	SEVERITY/PATTERN (Define classes)
Scotch Pine (Christmas Plantations)	Spotty locations (1 or 2 trees in Burrillville and Foster)	light

^{*} Forest Type Group - White-Red-Jack Pine, Spruce-Fir, Hard Pine, Oak-Pine,
Oak Hickory, Oak-Gum-Cypress, Elm-Ash-Cottonwood,
Northern Hardwood, Aspen-Birch.

^{**} Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE

DAMAGE CAUSING AGENT Diplozia

SCIENTIFIC NAME

SPECIFIC TREE SPECIES AFFECTED Scotch Pine

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)
10 years old (approx.)

SURVEY METHOD Observation calls

TREATMENT (if any) Remove affected tree(s) and destroy those trees.

TREND (Past and future) If there is any spread of this disease, it has been
noticed in Providence County, but there is little
spread, if any spread at all.

LOCATION	MAP ENCLOSED <u>yes</u>	TAPE ENCLOSED _____
STATEWIDE _____ OR:		
COUNTY <u>Providence</u>	TOWNSHIP _____	
_____	_____	
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COMMENTS

RHODE ISLAND

